Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-12-23-55** **Date: 23/12/2019**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements and Maintenance of Culvert at Santhosh Nagara in Ward no 13 Mallasandra Shettyhalli Sub Division.

Agency : Sri.D.V.Kumar, #657, 5th Main Road, LG Ramanna Layout, Laggere, Bangalore-58.

Customer's Reference : EE/DD/WO/421/19-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-12-19

Customer ID : Culvert Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Slab Concrete	M20	16/12/2019	23/12/2019	151.40 X 149.48 X 151.56	22631	8.907	411.1	18.2	18.3
2	Culvert Bottom Slab Concrete	M20	16/12/2019	23/12/2019	151.12 X 150.97 X 150.17	22815	8.101	421.6	18.5	
3	Culvert Bottom Slab Concrete	M20	16/12/2019	23/12/2019	150.11 X 149.73 X 150.24	22476	8.003	406.9	18.1	

Note:

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ಮಲ್ಲೇಶ್ವರಂ, ರಾಮಚಂದ್ರಪುರ

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-12-23-55** **Date: 23/12/2019**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Maintenance of Culvert at Santhosh Nagara in Ward no 13 Mallasandra Shettyhalli Sub Division.
Agency	:	Sri.D.V.Kumar, #657, 5th Main Road, LG Ramanna Layout, Laggere, Bangalore-58.
Customer's Reference	:	EE/DD/WO/421/19-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-12-19
Customer ID	:	Culvert Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Slab Concrete	M20	16/12/2019	23/12/2019	150.46 X 150.98 X 149.93	22716	8.907	410.9	18.1	18.2
2	Culvert Bottom Slab Concrete	M20	16/12/2019	23/12/2019	149.57 X 149.02 X 149.16	22289	8.101	409.4	18.4	
3	Culvert Bottom Slab Concrete	M20	16/12/2019	23/12/2019	149.78 X 149.32 X 151.30	22366	8.003	403.6	18.0	

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ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 24/12/2019

Lab ID	:	**CP-2019-12-23-55**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Maintenance of Culvert at Santhosh Nagara in Ward no 13 Mallasandra Shettyhalli Sub Division.
Agency	:	Sri.D.V.Kumar, #657, 5th Main Road, LG Ramanna Layout, Laggere, Bangalore-58.
Customer's Reference	:	EE/DD/WO/421/19-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-12-19
Customer ID	:	Culvert Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	17/12/2019	24/12/2019	149.85 X 149.11 X 150.03	22345	8.907	421.9	18.9	18.8
2	Culvert Side Wall Concrete	M20	17/12/2019	24/12/2019	150.02 X 151.75 X 150.54	22764	8.101	430.7	18.9	
3	Culvert Side Wall Concrete	M20	17/12/2019	24/12/2019	150.09 X 151.58 X 151.26	22751	8.003	422.9	18.6	

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ಎಸ್.ಎಂ. ರಸ್ತೆ, ಬೆಂಗಳೂರು

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 24/12/2019

Lab ID	:	**CP-2019-12-23-55**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Maintenance of Culvert at Santhosh Nagara in Ward no 13 Mallasandra Shettyhalli Sub Division.
Agency	:	Sri.D.V.Kumar, #657, 5th Main Road, LG Ramanna Layout, Laggere, Bangalore-58.
Customer's Reference	:	EE/DD/WO/421/19-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-12-19
Customer ID	:	Culvert Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	17/12/2019	24/12/2019	151.56 X 151.04 X 149.67	22891	8.907	430.5	18.8	18.7
2	Culvert Side Wall Concrete	M20	17/12/2019	24/12/2019	151.68 X 149.61 X 149.36	22693	8.101	429.3	18.9	
3	Culvert Side Wall Concrete	M20	17/12/2019	24/12/2019	150.89 X 150.53 X 151.82	22714	8.003	417.3	18.4	

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-12-23-55** **Date: 24/12/2019**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements and Maintenance of Culvert at Santhosh Nagara in Ward no 13 Mallasandra Shettyhalli Sub Division.

Agency : Sri.D.V.Kumar, #657, 5th Main Road, LG Ramanna Layout, Laggere, Bangalore-58.

Customer's Reference : EE/DD/WO/421/19-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-12-19

Customer ID : Culvert Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	17/12/2019	24/12/2019	149.87 X 149.15 X 151.33	22354	**8.907**	412.9	18.5	18.5
2	Culvert Side Wall Concrete	M20	17/12/2019	24/12/2019	150.87 X 149.00 X 149.42	22480	**8.101**	421.3	18.7	
3	Culvert Side Wall Concrete	M20	17/12/2019	24/12/2019	150.61 X 149.93 X 150.02	22581	**8.003**	412.5	18.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-12-23-55** **Date: 14/01/2020**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements and Maintenance of Culvert at Santhosh Nagara in Ward no 13 Mallasandra Shettyhalli Sub Division.

Agency : Sri.D.V.Kumar, #657, 5th Main Road, LG Ramanna Layout, Laggere, Bangalore-58.

Customer's Reference : EE/DD/WO/421/19-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-12-19

Customer ID : Culvert Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	17/12/2019	14/01/2020	150.46 X 150.72 X 149.43	22678	8.169	528.0	23.3	23.2
2	Culvert Side Wall Concrete	M20	17/12/2019	14/01/2020	151.34 X 149.14 X 149.30	22571	8.246	509.6	22.6	
3	Culvert Side Wall Concrete	M20	17/12/2019	14/01/2020	150.95 X 150.02 X 149.90	22646	8.674	536.6	23.7	

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